

FIG. 1A

10/22/00 12:29:36

USER DATABASE <u>DB2</u>	
USER NAME	LOG-IN SESSION TIMEOUT TIME LIMIT (SEC)
USER1	120
USER2	240
USER3	60
...	...

FIG. 1B

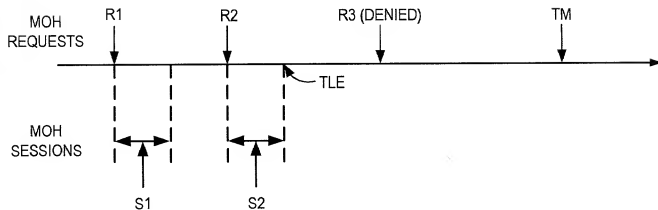


FIG. 1C

0996927.092701
 707260 2269960

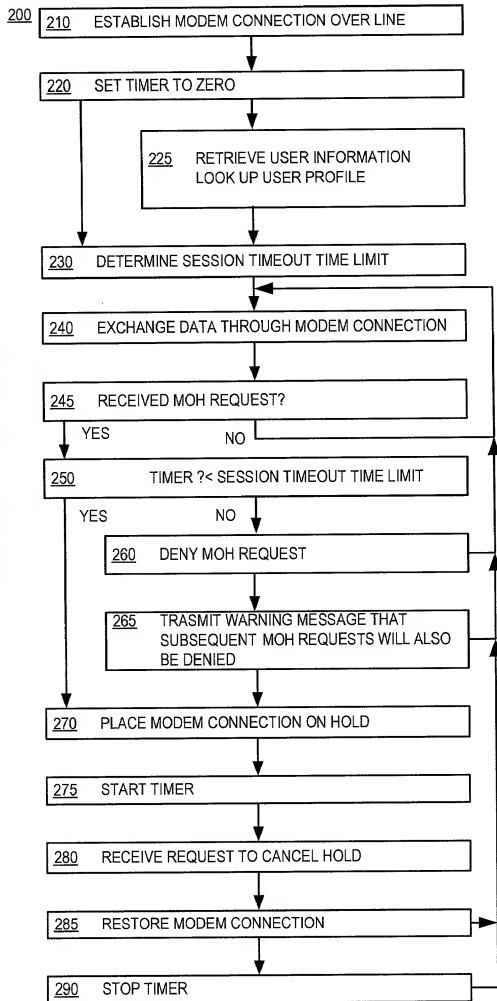


FIG. 2

300

310 ESTABLISH MODEM CONNECTION WITH NETWORK
DEVICE OVER TELEPHONE LINE

320 EXCHANGE DATA OVER MODEM CONNECTION

330 RECEIVE LINE REQUEST TO TEMPORARILY DISCONTINUE
THE MODEM CONNECTION FOR RELEASING THE TELEPHONE
LINE FOR VOICE CALL

340 HAS WARNING MESSAGE BEEN RECEIVED TO NOT MAKE ANY
MORE MOH REQUESTS?

NO

YES

350 DO NOT TRANSMIT MOH REQUEST THROUGH
TELEPHONE LINE

360 NOTIFY USER

370 TRANSMIT MOH REQUEST THROUGH TELEPHONE LINE

375 PLACE MODEM CONNECTION ON HOLD

380 DETERMINE WHEN VOICE CALL ENDS

390 RESTORE MODEM CONNECTION

FIG. 3

MH bits LSB:MSB			
0:3	Fill bits: 1111		
4:11	Frame sync: 01110010, where the left-most bit is first in time		
12:15	Signal indication bits:		
	0011	Mhreq	Request remote modem to go on -hold
	0101	Mhack	Indicate agreement to go on hold and timeout
	0111	Mhnack	Deny on-hold, request cleardown or fast reconnect
	1001	MHclrd	Request cleardown
	1011	Mhcda	Acknowledge cleardown
	1101	MHfrr	Request fast reconnect
16:19	Information bits: For signals Mhreq, Mhnack , Mhcda and MHfrr repeat signal indication bits For Mhack:		
	16:19	T1 – Timeout period for on -hold	
	For MHclrd:		
	16:19	0101 Cleardown due to incoming call 0110 Cleardown due to outgoing call 1010 Cleardown due to other reason	
	For Mhnack:		
	16:19	<u>0101 Modem on Hold denied. Subsequent requests will be denied until current modem session terminates.</u> <u>0111 Modem on Hold denied. Try again later.</u>	
	20:35	CRC	
36:39	Fill bits: 1111		
NOTE 1 - Bit combinations not defined in bits 12 - 15 are reserved for the ITU. MH sequences with undefined bit combinations should be ignored.			
NOTE 2 - Bit combinations not defined in bits 16 - 19 for MHclrd and <u>Mhnack</u> are reserved for the ITU and should not be interpreted by the receiving modem.			

FIG. 4